ABSTRACT OF THE DISCLOSURE

In the conventional digital radio communications, 1/2 or more of a channel capacity has been used for error control. Thus, error resistance is high, and a digital compressed moving picture can be transmitted within a short time in the case of high-speed transmission. However, when large-capacity information, such as image data, is transmitted in low bit data transmission, e.g., a digital MCA system, transmission takes a long time even when an error is small on a transmission path. Conversely, a reduction in redundancy shortens transmission time, but reduces error resistance. Consequently, in the case of digital compressed image data, it was impossible to reproduce an image with respect to a 1-bit error. A method is disclosed for protecting data by correcting a plurality of errors. This method comprises the steps of: first transmitting data and the coded sequence of error correction codes having small redundancy; and then transmitting any one selected from the data, the coded sequence of the error correction codes, a check part of error correction codes for protecting data with respect to another correction sequence having a large correction capability for protecting the same data, the coded sequence the error correction codes, a check part of other error correction codes having a large correction capability with respect to the coded sequence of the error correction codes, and the coded sequence of the other error correction codes.